

# XP-002121183

AN - 1978-45025A [25]

PR - JP19760127307 19761025

TI - Resistor formed on an insulating substrate by melt spraying - a powdered mixt. of ceramic and metal

IW - RESISTOR FORMING INSULATE SUBSTRATE MELT SPRAY POWDER MIXTURE CERAMIC

## METAL

PA - (UYTO-N) UNIV TOKAI GH

PN - JP53052995 A 19780513 DW197825 000pp

IC - C22C19/05 ; C22C29/00 ; H01B1/02 ; H01C7/00 ; H01C17/10

AB - J53052995 The resistor is mfd. by melt-spraying a powder mixt. of (A) ceramic, and (B) metal or alloy on an insulating substrate (e.g. aluminous ceramic) to form a resistor layer. Pref. the layer is Ni-Cr alloy powder, and the ceramic is barium titanate powder. The ceramic powder may be precoated with metal by electroless plating.

- The resistivity of the resistor is varied in accordance with the variation of the ratio between the ceramic and the metal or alloy, i.e. the resistor can be a dielectric material or an insulating material. The strength of the spray-coated film on the substrate is high (e.g. 200 kg/cm<sup>2</sup>) in comparison with conventional cermet.